

# Save Energy, Water and Money with State Revolving Fund Loans

Plan for energy efficiency now to help Hawaii become a leader in sustainability!

## The Challenge:

With rising energy costs and stringent water quality standards, how can facilities reduce cost?

## The Solution:

Use a low-interest SRF loan for an energy efficiency program at your water or wastewater facility.

- 15-30% energy savings
- Qualify for valuable energy rebates
- Save money for ratepayers
- Produce more stable effluent with lower risk of violations
- Extend equipment life
- Reduce capital expenses
- Reduce odor liability
- Reduce solids accumulation
- Decrease air pollutant emissions

### Kihei & Lahaina Wastewater Facilities

#### Energy Efficiency Measures:

Water conservation and re-use



**Savings:** ~400 million gallons per year of potable water. Maui County uses 22% of its treated wastewater for landscaping, agriculture, cooling and construction uses.

### Wailuku-Kahului Wastewater Reclamation Facility Expansion



#### Energy Efficiency & Savings:

*This SRF-funded project received a \$100,000 rebate from Maui Electric for installing energy efficient blowers.*

### Energy efficiency measures eligible for inclusion in an SRF project:

- Energy audits and feasibility studies
- Energy-efficient pumps
- Variable-frequency drives
- Leak detection equipment
- Capital costs of onsite cogeneration and clean energy or offsite clean energy facilities powering publicly-owned treatment works
- Water conservation and re-use projects and programs
- Environmental management system

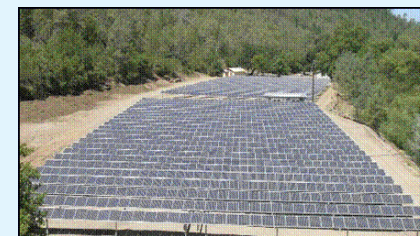
## Features of SRF Loans

- Below-market interest rate
- Loans up to 100% of project costs
- Repayment period up to 20 years

## Eligible Water & Wastewater Projects:

- Projects to ensure safe drinking water
- Projects to expand & improve water pollution control infrastructure
- Nonpoint source projects
- Energy efficient projects

### Solar Panel Installation at Lake Hennessy Wastewater Facility in Napa, CA



#### Energy Efficiency Measures:

- Reduce demand from utility grid
- Lower operating costs
- Improve air quality

**Savings:** Average savings exceeding \$100,000 annually with an estimated total savings of \$3.2 million (gross) over the next 25 years.

## How Do I Get Started?

Track, assess and benchmark your facility's energy use: [www.energystar.gov](http://www.energystar.gov)

Check out electric company rebates for energy-efficient projects:

Energy\$olutions for Business (HECO, MECO and HELCO): [www.heco.com](http://www.heco.com),  
[www.mauielectric.com](http://www.mauielectric.com)

Energy Wise Commercial Energy Efficiency Program (KIUC): [www.kiuc.coop](http://www.kiuc.coop)

### For more information:

Contact Hawaii's State Revolving Fund Programs to apply for an SRF loan:

**Safe Drinking Water:** (808) 586-4258

**Wastewater:** (808) 586-4294

*The wastewater treatment plant in the Dublin-San Ramon Services District in California (capacity: 17 MGD), implemented these energy efficiency measures:*

- Increased blower capacity
- Premium efficiency motors
- Relocation of recycled water process reduced effluent pumping distance by 16 miles

### Resulting in these savings:

- Saves 1,253,375 kWh/year
- Saves \$290,000/year in energy costs
- Received \$67,000 in rebates

## Did you know?

*Hawaii County installed dedicated leak detection systems to target pipe replacements and hired an Energy Management Analyst in the Department of Water Supply.*

## Learn more about reducing energy use:

Energy Star Program: [www.energystar.gov](http://www.energystar.gov)

EPA Sustainable Infrastructure Program:  
[www.epa.gov/waterinfrastructure/](http://www.epa.gov/waterinfrastructure/)

Department of Energy Best Practices Program:  
[www1.eere.energy.gov](http://www1.eere.energy.gov)

Ensuring a Sustainable Future: An Energy Management Guidebook for Wastewater & Water Utilities: [www.epa.gov/waterinfrastructure/pdfs/guidebook\\_si\\_energymanagement.pdf](http://www.epa.gov/waterinfrastructure/pdfs/guidebook_si_energymanagement.pdf)

Check Up Program for Small Systems (CUPSS):  
[www.epa.gov/cupss/](http://www.epa.gov/cupss/)

BOMA/U.S.EPA Energy Star Energy® Efficiency Program BEEP®  
[www.boma.org/trainingandeducation/BEEP/curriculum.htm](http://www.boma.org/trainingandeducation/BEEP/curriculum.htm)

Hawaii Water Environment Association:  
[www.hwea.org](http://www.hwea.org)

Water Effective Utility Management:  
[www.watereum.org](http://www.watereum.org)

# Energy and Water Efficiency in Water & Wastewater Facilities

## Using the Hawaii State Revolving Fund (SRF)



## Hawaii SRF Programs

**Safe Drinking Water:** (808) 586-4258  
[www.hawaii.gov/health/environmental/water/sdwb/dwsrf/dwsrf.html](http://www.hawaii.gov/health/environmental/water/sdwb/dwsrf/dwsrf.html)

**Wastewater:** (808) 586-4294  
[www.hawaii.gov/health/environmental/water/wastewater/cwsrf.html](http://www.hawaii.gov/health/environmental/water/wastewater/cwsrf.html)

